Exhibit P

Case 2:20-cv-00286-JRG Document 1-16 Filed 09/01/20 Page 2 of 1911 Page 19 1384

ETSI Rules of Procedure, 29 November 2017

Annex 6 - Appendix A: **IPR Licensing Declaration forms**

IPR HOLDI	ER / ORGANISATIO	ON ("Declarant")			
Legal Name	e: Sun Paten	t Trust			
CONTACT	DETAILS FOR LIC	ENSING INFORMATION	<u>:</u>		
Name and Department Address:	c/o Wiggin	and Dana LLP on Avenue, 35th Floor NY 10022			
Telephone:	212-551-28		Fax:	212-551-2888	
Email:	jcasino@w	riggin.com	URL:	N/A	
GENERAL	IPR LICENSING DE	ECLARATION			
ETSI that (c	check one box only			nt and/or its AFFILIATES he	ereby informs
⊠ wit	h reference to ETSI	Proiect(s): LTE Ac	dvanced		, or
		TSI STANDARDS AND TE		SPECIFICATIONS	- 1
	erence to (check o				
	•		nade by the	e Declarant and/or its AFFIL	IATES or
lamed .	/ IPRs	r teermeal contributions in	nade by the	o Decidial Candrol 113 Al File	IATEO, OI
licenses und IPR Policy, identified ab STANDARE SPECIFICA ETSI Project (2) it will con	der its/their IPR(s) of in respect of the Sove, to the extent the O(S) or TECHNICAL TION resulting from the field of mply with Clause 6.	on terms and conditions we TANDARD(S), TECHNIC, hat the IPR(s) are or become SPECIFICATION(S) or proposals or Work Item use of practice of such Salbis of the ETSI IPR Police.	thich are in AL SPECII ome, and ret, as applicate within the STANDARI or with respondent to the standard or with responde	IATES are prepared to gran accordance with Clause 6.1 FICATION(S), or the ETSI I emain ESSENTIAL to practicable, any STANDARD or the current scope of the about or TECHNICAL SPECIFIC pect to such ESSENTIAL IPE	1 of the ETSI Project(s), as ice that/those TECHNICAL ove identified CATION; and R(s).
	is irrevocable under iprocate (check bo		the condition	on that those who seek licer	ices agree to
The constru the laws of		performance of this Gene	eral IPR lice	ensing declaration shall be	governed by
Terms in AL	L CAPS on this form	m have the meaning provi	ded in Cla	use 15 of the ETSI IPR Police	cy.
SIGNATUR	<u>E</u>				
				esent that you have the auth nmitments provided in this fo	
Name of au	thorized person:	Joseph Casino			
Title of auth	orized person:	Managing Trustee			
Place, Date	:	New York, NY on Septe	ember 21,	2018	
Signature:		for a			
ETSI - 6		e return this form duly sign les - F-06921 Sophia Anti		SI Director-General x – France / Fax. +33 (0) 4	93 65 47 16

REÇU 2 4 SEP. 2018 ETSI Rules of Procedure, 29 November 2017

IPR INFORMATION STATEMENT AND LICENSING DECLARATION

IPR HOLDER / ORG	ANISATION	("Declarant")		
Legal Name:	Sun Patent T	rust		
CONTACT DETAILS	FOR LICEN	ISING INFORMATION:		
Department:	c/o Wiggin ar	no, Managing Trustee nd Dana LLP Avenue, NY, NY 10022	2	
Telephone:	1-212-551-28	342	Fax:	1-212-551-2888
Email:	jcasino@wigg	gin.com	URL:	N/A
IPR INFORMATION	STATEMENT	Γ		
ETSI that it is the De IPR Information State Item(s), STANDARD Statement Annex. The Declarant and/or are the propri	clarant's and/ ement Annex (S) and/or TE tts AFFILIAT rietor of the IF	for its AFFILIATES' pre may be or may becom ECHNICAL SPECIFICA TES (check one box of PR(s) disclosed in the a	sent belief e ESSENT TION(S) id nly): ttached IPI	at and/or its AFFILIATES hereby informs that the IPR(s) disclosed in the attached TIAL in relation to at least the ETSI Work dentified in the attached IPR Information R Information Statement Annex.
IPR LICENSING DEC	CLARATION			
In accordance with	Clause 6.1			clarant and/or its AFFILIATES hereby rdinate box, where applicable):
become, and re SPECIFICATIO AFFILIATES at	emain ESSEN N identified in re (1) prepar h are in acco	NTIAL in respect of the in the attached IPR Info red to grant irrevocable ordance with Clause 6.	ETSI Work rmation St e licences	R Information Statement Annex are or k Item, STANDARD and/or TECHNICAL tatement Annex, the Declarant and/or its under this/these IPR(s) on terms and TSI IPR Policy; and (2) will comply with
		ertaking is made subje check box if applicabl		condition that those who seek licences
				ke the above IPR Licensing Declaration asing Declaration Annex).
be governed by the la	aws of France	2.		statement and licensing declaration shall use 15 of the ETSI IPR Policy.
SIGNATURE				
				on form, you represent that you have the sentations and commitments provided in
Name of authorized p	erson: Jo	seph Casino		
Title of authorized pe	rson: Ma	anaging Trustee		
Place, Date:	Ne	ew York, NY on Septem	ber 21, 20	18
Signature:	-	In a		
ETSI - 650, route		um this form duly sign - F-06921 Sophia Antij		l Director-General x – France / Fax. +33 (0) 4 93 65 47 16





ETSI Rules of Procedure, 29 November 2017 IPR Information Statement Annex

								Country of registration		HER INFORMATION f this PATENT FAMIL	.Y, if any *
Project or Standa rd name	Work Item or Standar d No.	ve Specific part of the standard (e.g. Section)	Version (V.X.X.X)	Propriet or	Application No.	Publication No.	Patent/Application Title		Application No.	Publication No.	Country of registrat on
										AU 12740/00	Australia
e.g.	ETS! TS		119 (20)	SEMINAR .			Scheduling of slotted-mode	EPC CONTRACT		CN 99813100.8	China P.R.
UMTS	125 215	6.1.1.2	V.3.5.0	Abcd		EP 1131972	related measurements	ING		FI 108270	Finland
	GGPP TS24.3 Relea 03							STATES		JP 11-318161	Japan
										US 6532226	USA
	7.63	5.6.2.2	V.10.8.	Sun	PCT/JP2006/30	WO2006/106	Communication Control	PCT	06730371.9		BE
0.00		0	Patent	6423	712	Method and		PI0609495-3		BR	
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									06730371.9		CZ
								06730371.9		DE	
								06730371.9		DK	
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									06730371.9		FI
									06730371.9		FR
									06730371.9		GB
									06730371.9		GR
									06730371.9		HU
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									2011-072359	2011-147176	JP
									2012-074597	2012-165421	JP
									06730371.9		NL
									06730371.9		PL
									06730371.9		PT

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									06730371.9		RO								
									06730371.9		SE								
									06730371.9		TR								
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PP	TS36.3	5.5	V.10.1	Sun	PCT/JP2007/05	WO2007/083	Mobile station	PCT	PI0707878-1		BR								
lea	00	31.0.00	2.0	Patent	0830	762	apparatus, reception	3	PI0722415-0		BR								
10	CSSMO			Trust			method and integrated circuit		200780002768. 0	101371478	CN								
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									07707118.1	1976169	EP								
								11167327.3	2391082	EP									
								1470/MUMNP/ 2008		IN									
								1062/MUMNP/ 2011		IN									
								1624/MUMNP/ 2014		IN									
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									2010/012534		MX								
									2008129720		RU								
									2011109040	2011109040	RU								
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									13/114696	2011-0223951	US								
									13/360472	2012-0120911	US								

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									14/195693	2014-0177624	US								
GPP	TS36.2	5.6	V.10.3.	Sun	PCT/JP2007/06	WO2008/020	COMMUNICATION	PCT	2008-529887	2008-820623	JP								
elea	16		1	Patent	6018	623	APPARATUS AND		12/377579	2010-0226318	US								
e 10				Trust			COMMUNICATION		14/529487	2015-0049728	US								
							METHOD		14/705677	2015-0237614	US								
									14/981252		US								
									15/289780		US								
									15/899045		US								
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e 10				Trust					201310085069. 4	103138819	CN								
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GPP	TS36.2	5.5.2.1.	V.10.7.	Sun	PCT/JP2008/00	WO2009/087	APPARATUS AND	PCT	PI0821961-3		BR								
Relea	11	1	0	Patent	4006	741	METHOD FOR	0.000	08870529.8	2228934	EP								
e 10				Trust			GENERATING AND		12184671.1	2560308	EP								
							TRANSMITTING		13178987.7	2661003	EP								
							REFERENCE SIGNAL		2009-548815	2009-887741	JP								
							IN RADIO		2013-010915	2013-138446	JP								
							COMMUNICATION		2013-257965	2014-090463	JP								
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			1		s of Procedure, 29				13/752126	2013-0176962	US
									14/246497	2014-0219208	US
									14/520170	2015-0036646	US
									14/699890	2015-0036646	US
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									15/057969	20160183246	US
									15/376470	2017/0093543	US
									15/672047	20170338926	US
GPP	TS36.2	6.10.5	V.10.7.	Sun	PCT/JP2009/00	WO2009/157	INTEGRATED CIRCUIT	PCT	16169094.6	20170336920	BE
elea	11	0.10.0	0	Patent	2824	168	INTEGRATED CIRCOTT	101	16169094.6		CH
10	505		,	Trust	2021	100			201710037526.	106911368	CN
				Truct					0	100911308	
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						14/931121		US			
									15/717323		US

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3GPP	TS36.2	9.1.2	V.10.1	Sun	PCT/JP2009/00	WO2010/016	Wireless communication	PCT	PI0917452-4		BR
Relea se 10	13		3.0	Patent Trust	3802	274	apparatus and channel allocation method		200980130504. 2	102119566	CN
									201410059902.	103796321	CN
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									13/866877	2013-0235826	US
									14/683016	2015-0215919	US
									14/930285		US
									15/714873	20180014289	US
									16/006648		US
									1-2011-00038		VN
GPP Relea	TS36.2 12	5.3.3.1	V.10.9.	Sun Patent	PCT/JP2009/00 3841	WO2010/018 684	Integrated circuit	PCT	200980130502. 3	102119573	CN

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40	-	110			s of Procedure, 29	November 201	1		004440007040	1000077700	-
e 10				Trust					201410267643.	103997792	CN
									09806580.8	2315487	EP
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									15/271899		US
									16/030101		US
GPP	TS36.2	5.3.3	V.10.7.	Sun	PCT/JP2009/00	WO2010/032	Integrated circuit for	PCT	PI0914194-4		BR
Relea e 10	11		0	Patent Trust	4741	482	inverse discrete fourier transforming a		200980136109. 5	102160310	CN
							frequency domain signal to a time domain symbol		201410197194. 9	103929292	CN
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									13175493.9	2651058	EP
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									14/072668	2014-0064241	US
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									14/979109	20160135190	US
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									16/012519		US
									1-2011-00508		VN

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3GPP	TS36.2	8.1.2	V.10.1	Sun	PCT/JP2009/00	WO2010/047	Terminal and method for	PCT	PI0919727-3		BR
Relea	13		3.0	Patent	5381	061	transmitting a		2738607		CA
se 10				Trust			transmission signal		200980141300.	102187607	CN
									201510140701. X	104702375	CN
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									2011115422	2011115422	RU
									15/149601		US
									13/124811	2012-0026948	US
									14/457783		US
									16/053256		US
									1-2011-00931		VN
									2011/03076		ZA
3GPP	TS36.2	10.1.2.	V.10.1	Sun	PCT/JP2009/00	WO2010/050	Radio communication	PCT	09823267.1		DE
Relea	13	1	3.0	Patent	5529	153	device and radio	8 532	17157401.5	3197077	EP
se 10	15	20	\$65	Trust	13.53	3270	communication method		09823267.1	7.181.511	FR
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									2010-535644	2010-850153	JP
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									2015-025378	2015-144440	JP
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									13/122572	2011-0206030	US
									14/195349	2014-0185590	US
3GPP	TS23.0	B.1	V.10.1	Sun	PCT/JP2009/00	WO2010/050	BASE STATION	PCT	2009308623		AU

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Relea	60		4.0	Patent	s of Procedure, 29	222	DEVICE, GATEWAY		2013201325		AU
€ 10				Trust			DEVICE, CALL		PI0919604-8		BR
							CONNECTING METHOD, AND		200980140455. 0	102187720	CN
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GPP	TS36.2	8.1.2	V.10.1	Sun	PCT/JP2009/00	WO2010/055	Base station apparatus	PCT	2009315179		AU
elea	13	100 DOI 100 DO	3.0	Patent	6086	676	and resource allocation	(NR (1875/15))	PI0921090-3		BR
e 10	0.00			Patent 6 Trust	6086		and resource allocation method		200980145383.	102217220	CN
									201410294170.	104135338	CN

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	All I		E	TSI Rule	s of Procedure, 29	November 201	7				
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									796/MUMNP/2 011		IN
									2010-537707	2010-855676	JP
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GPP	TS36.2	8.6.3	V.10.1	Sun	PCT/JP2009/00	WO2010/064	Base station and	PCT	2009323568		AU
telea e 10	13	1.00-03/800-0-0	3.0	Patent Trust	6508	407	method for receiving control information	n ened	PI0922721-0	Journal No. 2348	BR
									200980148274. 2	102239657	CN
									201410089940.	103888220	CN
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				1					17201614.9	3327964	EP
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GPP Relea	TS36.2	5.5.1.5	V.11.7. 0	Sun Patent	PCT/JP2009/00 6729	WO2010/067 598	INTEGRATED CIRCUIT	PCT	201610238177.	105656513A	CN
se 11			1.05	Trust	OWNED PROCESS	1000000			09831705.0	2357733	EP
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GPP	TS36.2	5.3.3.1	V.10.9.	Sun	PCT/JP2009/00	WO2010/073	COMMUNICATION	PCT	2010-543912	2010-873702	JP
Relea	12		0	Patent	7254	702	APPARATUS AND		2014-186203	2014-233089	JP
e 10				Trust			CONTROL		13/131480	2011-0222503	US
							INFORMATION		14/551763		US
							RECEIVING METHOD		15/836240		US
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e 11	0.64		1925	Trust	ens qualitation	1	STATION		13/144161	2011-0274073	US
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e 10				Trust		1000	TRANSMISSION		10753226.9	2410684	EP
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e 10	275.00		.00.0000	Trust	CONTRACTOR CONTRACTOR		APPARATUS AND WIRELESS		201710118893. 3	107070622	CN
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se 11	2000		100	Trust			METHOD FOR		10799647.2	2456270	EP
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se 11				Trust			method and decoding method		201610128570. 8	105610562A	CN
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e 11				Trust			INTEGRATED CIRCUIT AND SIGNAL		201610591880.	106027219	CN
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e 10				Trust			DEVICE, RETRANSMISSION		201180038797. 9	103069734	CN
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se 10				Trust			COMMUNICATION METHOD		201180047183. 7	103141143	CN
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e 10				Trust	A Super Control on Carlot	000000	COMMUNICATION METHOD		201180054682. 9	103210694	CN
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e 10				Trust			TERMINAL, WIRELESS COMMUNICATION		201611253626. 9	106879021	CN
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e 10				Trust			transmitting method, and receiving method		201010164893. 5	101860510	CN
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e 11	135-571		300	Trust	950-0/3016702	Postation .	INFORMATION TO		16151461.7		DE
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GPP Relea	TS36.3 21	5.7	V12.10	Sun Patent	PCT/EP2012/07 3463	WO2013/110 372	Discontinuous reception operation of a mobile	PCT	201280071798. 8	104205993	CN	
se 12				Trust	0,30	V. 2	terminal		201810287611.		CN	
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									15/164755		US	
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									15/965279		US	
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3GPP Relea	TS36.2 13	9.1.4	V.11.1 3.0	Sun Patent	PCT/EP2013/05 1213	WO2013/135 407	SEARCH SPACE FOR EPDCCH CONTROL	PCT	112013028867		BR
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									14/984518		US
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									15/867591		US
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se 12	54500		1.55%	Trust	200		EFFICIENT		16151516.8		CZ
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TS36.2	10.1.2	V11.13	Sun	PCT/JP2013/00	WO2013/168	WIRELESS	PCT			BE
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		10.50	Trust			TERMINAL, BASE		201380001761.	103621162	CN
						AND RESOURCE ALLOCATION		201810188823.	108282268	CN
						METHOD				CZ
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									2018-119562		JP
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									17186428.3		SE
									17186428.3		TR
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SPP	TS36.2	9.1.4	V.11.1	Sun	PCT/JP2013/00	WO2013/168	COMMUNICATION	PCT	13787942.5		AL
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							DOWNLINK CONTROL INFORMATION		112013031729 -9		BR
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e 11	B100A1		170270	Trust		100 FE 100 FE	COMMUNICATION METHOD		201810750239. 9		CN
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GPP Relea	TS36.2 13	10.2	V12.12	Sun Patent	PCT/JP2013/00 3644		Integrated circuit controlling downlink	PCT	201380031401. 7	104365139	CN
se 12			0.	Trust	0044		HARQ		201711399966. 7	107979451	CN
									13820524.0	2876928	EP
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									2014-525697		JP
									2017-134946		JP
									14/413216		US
									15/390039	20170111146	US
									15/674398	20170338917	US
									15/961660		US
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lelea	13	1012	3.0	Patent	3643		BUFFER		2017201974		AU
e 11	1,000			Trust			PARTITIONING		2018206700		AU
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								201380002042.	103765970	CN
								201810222345. X	108173629	CN
								13819508.6	2876957	EP
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								2013-548503		JP
								2017-201263		JP
								10-2014- 7003358	2015-0033592	KR
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						1		10201702677Y		SG
								10201708734T		SG
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								15/332980	20170041914	US
								15/666420	20170332367	US
								1-2014-00172		VN
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se 11				Trust		TERMINAL APPARATUS,		201380002089. 9	103733710	CN
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								15/220231	20160337093	US									
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e 11	244.2.34 Z	141)		Trust	1	DEVICE, AND UPLINK RESPONSE SIGNAL		201810281857. 3	108200654	CN									
						TRANSMISSION		13825495.8	2882222	EP									
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								102126277	201414232	TW									
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GPP	lea 13 .0 Pa	Sun	PCT/JP2013/00	WIRELESS	PCT	13825002.2		AL											
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GPP lelea	TS36.2 13	10.1.3	V11.13	Sun Patent	PCT/JP2013/00 4160		Wireless communication terminal, base station	PCT	201380047037. 3	104620654	CN
e 11				Trust			device, and resource allocation method		201810890038. 9		CN
							1 300 4 300 3 4 4 5 0 7 0 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6		13841685.4		DE
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se 12				Trust			CONFIGURATION		2898097		CA
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									2015128808		RU
									2017138062		RU
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										15/594424		US
										15/798127		US
										15/957821		US
										1-2015-03453		VN
										2015/06898		ZA
BGPP Relea	TS36.2 13	14.1.1.	V12.12	Sun Patent	PCT/CN2014/07 1584	3GPP Release 12	WIRELESS	DEVICE	PCT	BR1120160146 19-0		BR

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se 12	Trust	CONTROL METHOD	201480072098. X	105874854	CN
			14880241.6		EP
			201627022538		IN
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			10-2016- 7017285		KR
			MX/a/2016/008 635		MX
			2016126214		RU
			2017144025		RU
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			15/634826	2017/0295549	US
			15/912435		US
			1-2016-02248		VN

^{*} Information on other members of a PATENT FAMILY is provided voluntarily (Clause 4.3 of the ETSI IPR Policy).

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Annex 6 - Appendix A: ETSI Rules of Procedure, 3 April 2019
IPR Licensing Declaration forms

P	
IPR HOLDER / OF	RGANISATION ("Declarant")
Legal Name:	Sun Patent Trust
CONTACT DETAI	LS FOR LICENSING INFORMATION:
Name and Title: Department: Address:	Joseph Casino, Managing Trustee N/A c/o Wigging and Dana, 437 Madison Avenue, NY, NY 10022
Telephone:	212-551-2842 Fax: 212-551-2888
-	212-551-2842 Fax: 212-551-2888 icasino@wiggin.com URL: www.sun-ip.com
	ENSING DECLARATION
-	Clause 6.1 of the ETSI IPR Policy the Declarant and/or its AFFILIATES hereby informs
	ence to ETSI STANDARD(S) or TECHNICAL SPECIFICATION(S) No.:
with refere	nce to ETSI Project(s): LTE Advanced , or
with refere	nce to all ETSI STANDARDS AND TECHNICAL SPECIFICATIONS
and with reference	to (check one box only):
☐ IPR(s) con ☐ any IPRs	tained within technical contributions made by the Declarant and/or its AFFILIATES, or
licenses under its/ti IPR Policy, in respidentified above, to STANDARD(S) or SPECIFICATION re Project(s), for the file	by irrevocably declares that (1) it and its AFFILIATES are prepared to grant irrevocable heir IPR(s) on terms and conditions which are in accordance with Clause 6.1 of the ETSI ect of the STANDARD(S), TECHNICAL SPECIFICATION(S), or the ETSI Project(s), as the extent that the IPR(s) are or become, and remain ESSENTIAL to practice that/those TECHNICAL SPECIFICATION(S) or, as applicable, any STANDARD or TECHNICAL esulting from proposals or Work Items within the current scope of the above identified ETSI eld of use of practice of such STANDARD or TECHNICAL SPECIFICATION; and (2) it will 6.1 bis of the ETSI IPR Policy with respect to such ESSENTIAL IPR(s).
	cable undertaking is made subject to the condition that those who seek licences agree to e (check box if applicable).
The construction, vilaws of France.	alidity and performance of this General IPR licensing declaration shall be governed by the
Terms in ALL CAPS	S on this form have the meaning provided in Clause 15 of the ETSI IPR Policy.
SIGNATURE	
	eral IPR Licensing Declaration form, you represent that you have the authority to bind the AFFILIATES to the representations and commitments provided in this form.
Name of authorized	person: Joseph Casino
Title of authorized p	person: Managing Trust
Place, Date:	New York, NY Septe
Signature:	Is Joseph Casino
ETSL- 650 rout	Please return this form duly signed to: ETSI Director-General



REQU 2 4 SEP. 2019 ETSI Rules of Procedure, 3 April 2019

IPR INFORMATION STATEMENT AND LICENSING DECLARATION

IPR HOLDER / OR	GANISATION ("Declarant")		
Legal Name:	SUN PATENT TRUST		
CONTACT DETAIL	S FOR LICENSING INFORMA	ATION:	
Name and Title: Department: Address:	Joseph Casino, Managing Dia N/A c/o Wigging and Dana, 437 M		NY, NY 10022
Telephone: Email:	212-551-2842 jcasino@wiggin.com	Fax:	212-551-2888 www.sun-ip.com
IPR INFORMATION	STATEMENT		
ETSI that it is the Do IPR Information Statem(s), STANDARI Statement Annex. The Declarant and/o are the prop	eclarant's and/or its AFFILIATE fement Annex may be or may D(S) and/or TECHNICAL SPEC or its AFFILIATES (check one prietor of the IPR(s) disclosed in	ES' present belie become ESSEN CIFICATION(S) box only): In the attached If	ant and/or its AFFILIATES hereby informs of that the IPR(s) disclosed in the attached ITIAL in relation to at least the ETSI Work identified in the attached IPR Information PR Information Statement Annex. and IPR Information Statement Annex.
ED LIGENSDIO DE	TOLABATION		
IPR LICENSING DE			
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and remain E SPECIFICATION AFFILIATES a conditions while Clause 6.1 bis	ESSENTIAL in respect of the DN identified in the attached IF are (1) prepared to grant irrect are in accordance with Classof the ETSI IPR Policy.	e ETSI Work PR Information S vocable licences use 6.1 of the E	ormation Statement Annex are or become, Item, STANDARD and/or TECHNICAL Statement Annex, the Declarant and/or its s under this/these IPR(s) on terms and ETSI IPR Policy; and (2) will comply with
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			on form, you represent that you have the sentations and commitments provided in
Name of authorized	person: Joseph Casino		
Title of authorized pe	erson: Managing Trustee		ALL STATES OF THE STATES OF TH
Place, Date:	New York, NY on S	September 23, 2	019
Signature:	/s Joseph Casino	ha	
ETSI - 650, route	Please return this form du des Lucioles - F-06921 Sophi		SI Director-General ex – France / Fax. +33 (0) 4 93 65 47 16

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STAN	DARD, TECH	NGAL SPECIFICAT Work Ham	ION or	Proprietor	Application Publication No. Publication	Publication	Patent/Application	Country of registration	Otherme	FURTHER INFORM	
Project or Standard name	Work liem or Standard No:	Distrative Specific periot the standard (e.g. Section)	Version (v.x.x.x)	Proprietor			Title		Application No.	Publication No.	Country of registration.
e.g. UMTS	ETSI TS 125 215	6.1.1.2	V.3.5.0	Abod		EP 1131972	Scheduling of slotted-mode related measurements	EPC CONTRACTING STATES		AU 12740/00 CN 99813100.8 FI 108270 JP 11-318161 US 6532226	Austrella China P.R. Finland Japan USA
								PCT	2006800248 56.6 2011102283 33.6	101218802 102395190	CN
									06781085.3 10012226.6 09171383.4 06781085.3	1902566 2291039 2141889 1902566	DE DE DE
									09171383.4 10012226.6 10012226.6	2141889 2291039 2387605	EP EP ES
3GPP Release	TS24.30	5.1.2.4	V10.8.0	Sun Patent	PCT/JP20 06/31401	WO20070 07856A1	The mobile node and a communication		06781085.3 10012228.6 06781085.3	1902566 2291039 1902568	FR FR GB
10				Trust			control method		10012226.6 10012226.6 10012226.6 2007-558380	2291039 2291039 2291039 4856654	IE IT JP
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					DOT/(DOC		communication		12/295260	8571001	US
GPP	TS36.32		V10.10.	Sun	PCT/JP20	W020071	base station		13/951371	9894682	US
elease	1	6.1.3.8	0	Patent	07/05695	19591A1	device and radio		15/850479	10306888	US
0	1			Trust			communication mobile station device		16/375269	20190230700 A1	US
								PCT	08703008.6	2104370A1	EP
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					PCT/JP20		communication		2008-553104	5159639	JP
IGPP	T836.21		V11.13.	Sun	08/05013	WO20080	base station		12/522368	8934418	US
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1				Trust			control signal		15/491667	10038519	US
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									16/442852	7.57	US
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10	3		0	Trust	3	0.11.001.11	system, radio		2009-521509	5037615	JP
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v			7.1.0.0	itust			device, and propagation path estimation method		12/810126	9237049	US

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					ire, 3 April 20			PCT	PI0916252-6	PI0916252A2	BR
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							Base station,		2727066	2727086A1	CA
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Release 10	TS36.33	5.3.10.3b	V10.22.	Patent Trust	09/00368	16221A1	method, and downlink data		2014101715 75.X	103944705	CN
JF170							communication		09804708.7	2312874	DE
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GPP Release	TS36.33	6.2.2	V10.22.	Sun Patent	PCT/JP20 09/00368	WO20100 16222A1	allocation method, and		1885/MUMN P/2012		IN
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ETS		W.	ETSI Rules	of Procedu	ire, 3 April 20	19					
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									PI201100231	166098	MY
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E/3))),	ETSI Rules	of Procedu	ire, 3 April 20	19	100-411-12		2014100430	103763296	CN
									07.1 10735846.1	2384072A	EP
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					ire, 3 April 20				201105475-6	173184	SG
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Release	TS36.21	10.1.2.2.1	V10.13, 0	Patent Trust	10/00184	06786A1	base station		2018280456 14		IN
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Release 0	3	10.1.2	0	Patent Trust	6	37341A1	communication apparatus and		2010800237 22.9	102449921	CN

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					ure, 3 April 20			1-2012- 00233		VN
3GPP				Sun	PCT/JP20	WO20110	Communic: system	3630/DELNP /2012		IN
Release	TS23.40	5.3.4.3	V10.13.	Patent	10/00594	52136A1	apparatus	2012-519840	5514908	JP
10	1	0.0.7.0	0	Trust	0	DE 100/11	status dependent mobile sen	13/504641	9204415	US
								1120120204 89-0	11201202048 9A2	BR
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								2015108956 17.9	105356976	CN
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							Transmissi	1922/MUMN P/2012	HILL THE STATE OF	IN
3GPP			140.00	Sun	PCT/JP20	WO20110	device	2011-553768	5356545	JP
Release	TS36,33	5.3.10.3	V10.22,	Patent	11/00079	99306A1	transmissic	2013-175505	5501512	JP
10	1	Contract of the	0	Trust	6	CETALSTING AV	method	2014-046140	5685658	JP
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								PCT	2011800293 06.4	102939787	CN
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3PP	T000 04			Sun	PCT/JP20	WO20111	device and		13/704010	8942176	US
elease	TS36.21	6.10.5	V10.7.0	Patent	11/00280	58436A1	wireless		14/588712	9143969	US
	1		The organization	Trust	2		communication		14/811464	9490922	US
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pp	T004 00			Sun	PCT/EP2	WO20070	node with	1	06762934.5	1927228	GB
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	1		TOTAL CONTRACTOR	Trust	11	Debta walkerstak	home- and		06762934.5	1927228	IE
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					ire, 3 April 20			PCT	07713892.3	1966940	DE
									07713892.3	1966940	EP
					Le rentere		Method for	4	07713892.3	1966940	FR
GPP	Capitalist wood VA			Sun	PCT/JP20	WO20070	selective service		07713892.3	1966940	GB
Release	TS22.25	4.2	V10.0.0	Patent	07/05208	89023A1	updates for		2008-552037	5048684	JP
10	9	Trade	V 10.0.0	Trust	6	00020/11	communication		12/159889	8601127	US
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							Wireless communication	PCT	2010800129 44.0	102362528	CN
3GPP Release	TS36.21			Sun	PCT/CN2 010/0716	WO20101	system and downlink		2014101285	103841632	CN
10	1	8.10	V10.7.0	Patent	58	24552A1	receiving power		2012-506318	5417527	JP
	1.5			Trust	A352.		detection		2013-238656	5592991	JP
							method therefor		13/266292	9049674	US
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							System and method to keep	PCT	2010800635 31.5	102763392	CN
3GPP					PCT/JP20		continuity of media flows for a		2015105908 49.8	105141622	CN
Release	TS23,23		V10.13.	Sun	10/00083	WO20110	collaborative		10712174.1	2534807	DE
10	7	6a.4a.3	0	Patent	9	99068A1	session without		10712174.1	2534807	EP
	1.5			Trust	8		constant		10712174.1	2534807	FR
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3GPP				Sun	PCT/EP2	WO20110	carrier activation		14185868.8	2819339	CH
Release 10	elease TS36.32	6.1.3.8	V10.10.	Patent	011/0004 73	98227A1	and deactivation using resource		2011800186 91.2	105744614	CN
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	300			Trust			communication method		2009-526341	5349308	JP
							memod		12/672256	8509344	US

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			ETSI Rules						13/887671	9265046	US
							Radio resource	PCT	2009-533061	5137959	JP
GPP Release 0	TS36.21	9.1.1	V10.13.	Sun Patent Trust	PCT/JP20 08/00259 5	WO20090 37854A1	management device, radio communication base station device, and radio resource management method		12/678725	8472389	US
							Radio	PCT	PI0817330-3		BR
GPP				Sun	PCT/JP20	WO20090	communication		2009-534174	5127836	JP
Release 10	TS36,21 1	5.4.1	V10.7.0	Patent Trust	08/00263 9	41029A1	device and response signal spreading method		12/679440	8422532	US
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GPP					PCT/JP20	14/0000000	Network node		08833875.1	2194737	EP
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									14/869373	9642057	US
									15/471827	10028190	US
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							Radio communication	PCT	2008801049 25.3	101796857	CN
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1	1 020.40	5.3.4.1	0	Patent	0	28209A1	base station		12/675378	8504072	US
	,			Trust			device, and radio communication method		2008-055329	5116509	JP
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							communication		2012-528587	5886200	JP
GPP	T000004		14440	Sun	PCT/JP20	WO20120	terminal		2016-022741	6037297	JP
Release	TS36.21	5.1.1.1	V11.13.	Patent	11/00398	20540A1	apparatus and wireless		2016-205932	6410111	JP
1	3	N-tuorestant	0	Trust	0	DAMESTIC SALES	communication		2018-169520	2019004512A	JP
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									14/702069	9386588	US
									15/372563	10349415	US
									18/395454		US
GPP	7000 51			Sun	PCT/JP20	WO20121	Relay station, base station and	PCT	2012800019 67.0	102986265	CN
Release	TS36.21	6.10	V10.7.0	Patent	12/00083	14868A1	communication		12749557.0	2680632	DE
0	1	45,000	1-623-73	Trust	0	- ASS - 5 15 5	method		12749557.0	2680632	EP
		1							2013-500861	8048892	JP

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					ure, 3 April 20				13/819292	9065527	US
								PCT	2013800079 34.1	104094535	CN
									2017107063 32.5	107508621A	CN
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11	1	6.3.4	V11.7.0	Patent	1	21727A1	reception		2018-208058		JP
				Trust	S		method, and		14/374177	9252861	US
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									16/057428	20180352538 A1	US
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3GPP	elease TS36.33 5 6			_	PCT/EP2		algorithm with a		04724803.8	1738535	EP
Release			V11.19.	Sun	004/0034	WO20050	minimum		10175589.0	2254290	EP
11		5.6.9.2	0	Patent Trust	31	96558A1	resource		2007-505387	4460603	JP
							parameter and method of		10-2006- 7022765	10-1150651	KR
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					E				10/594556	8208446	US
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3GPP					PCT/EP2		scalable QoS		04014494.1	1610492	EP
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7/38v	170			Trust	100.0		multicast/broadc		04014494.1	1610492	GB
							ast services		2011-171719		JP
									04014494.1	1610492	SE
									11/630027	7957738	US
a de la la							Non-3GPP to	PCT	09700338.8	2235985	DE
3GPP	7000 15			Sun	PCT/EP2	WO20090	3GPP network	- F	12186354,2	2541987	DE
Release	TS23.40	9.5.1	V11.10.	Patent	009/0000	87099A1	handover		14163749.6	2755423	DE
11	2		0	Trust	70		optimizations		09700338.8	2235985	EP
				- Comment			optimizations		12186354.2	2541987	EP

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onn				1	m m m m m		discovery upon		13176654.5	2709390	EP
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11	3	9.1.4	0	Patent	83	41467A1	downlink control		14182686.7	2824865	CH
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							feeding back		11862368.5	2692070A1	EP
GPP elease	TS36.21	7.0	V11.13.	Sun	PCT/CN2 011/0723	WO20121	MU-CQI in a communication		1350/MUMN P/2013		IN
1	3	7.2	0	Patent	32	29803A1	system, transmission		2014-501393	5942208	JP
				Trust			point device, and		2016-087004	6376476	JP
							user equipment		10-2013- 7021705	10-1723263	KR
									2013138567	2564532	RU
									201306278-1	192837	SG
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									1-2013- 02470	19934	VN
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						Method of scrambling		2011800718 67.0	103621030	CN	
GPP Release	TS36.21	0.4004		Sun	PCT/CN2 011/0803	WO20130	signals, transmission		2016111520 89.9	107104912A	CN
1	1	6.10.3.1	V11.7.0	Patent	72	10349A1	point device and		11869555.0	2695346	EP
				Trust			user equipment		11869555.0	2695346	EP
					1		using the method		19168406.7		EP
							meniod		17113641.7		HK
									2035/MUMN P/2013		IN
									2014-519376	5841249	JP

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									10-2013- 7034442	20140037142 A	KR
									PI201370209	MY-167088-A	MY
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									2013/08907	2013/08907	ZA
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									2016110509 13.X	107104706A	CN
							Method for		11873496.1	2700261	DE
							determining		11873496.1	2700261	EP
SPP elease	TS36.21		V11.13.	Sun	PCT/CN2 011/0803	WO20130	channel quality indicator, base		2034/MUMN P/2013		IN
	3	7.2	0	Patent	73	44482A1	station and user		2014-532208	5815137	JP
	1000) Partie	Trust	1000		equipment		2015-183753	6226244	JP
							therefor		10-2013- 7030883	10-1811092	KR
									2013152979	2576394	RU
									201308227-6	194816	SG
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							NY 198 22200 N	PCT	13744118.4		DE
							Terminal device,		13744118.4	2811802A1	EP
GPP				Sun	PCT/JP20	WO20131	base station		2013-535976	6065285	JP
Release	TS36.21	5.5.1	V11.7.0	Patent	13/00018	14798A1	device, and		2016-237744	6281828	JP
1	1	0.0.1	9111110	Trust	2	14100/11	communication		2018-002798	6554654	JP
				11400			method		14/006642	9913260	US
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								PCT	2012800313	103636156	CN
							Madhad of CO		47.1		
GPP				Cum	PCT/CN2	WO20131	Method of CSI		2017102481	107198691A	CN
Release	TS36.21	7.2	V11.13.	Sun	012/0753	66699A1	reporting, user		18.X		
11	3	1.4	0	Trust	40	00099A1	equipment and eNode B		12876146.7		EP
				Trust			GIADGE D		2015-510601	5950143	JP
									2016-102473	6414756	JP
				1				***	14/129259	10051489	US
							Wireless	PCT	13824923.0	2882217	DE
							communication		13824923.0	2882217	EP
CDD	3PP elease TS36.21 7.				PCT/JP20		terminal device,		19155493.0	3503617A1	EP
			V11.13.	Sun	13/00419		communication base device, and		2014-527962	6300105	JP
11		7.2.1		Patent				d	102125084	1596972	TW
2.3			0	Trust					14/415125	9531518	US
						method for generating CSI		15/354128	9806866	US	
								PCT	2012800212	103733671	CN
							1000000		57.4	100700077	0.,
							Wireless		2017104171	107181570A	CN
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	1			1			method of		12874929.8	2880891A1	EP
3GPP	7000		V44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Sun	PCT/CN2	WO20140	configuring		2015-524586	5988182	JP
Release	TS36.21	7.2.1	V11.13.	Patent	012/0794	19158A1	measurement		2016-147340	6152619	JP
11	3		0	Trust	77		resource, and		2017-094902	6347376	JP
	1			N.S. (13.5)			wireless		2018-094345	6554648	JP
				1			communication device therefor		14/112227	9877217	US
			1				device merelor		15/841062	10182366	US
				1					16/210513	20190110221	US
									NAME OF STREET	A1	No.
	TS36.21	10.1.2.1	V11.13.			WO20140 20819A1	Wireless communication	PCT	2013800028 08.7	103959886	CN

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3GPP Release				Sun Patent	PCT/JP20 13/00390		terminal, base station device,		2018101980	108462997A	CN
11				Trust	6		resource		13825710.0	2882250A1	EP
							allocation		2014-509956	6308394	JP
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									2019-038650	2019083586 A	JP
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									108114150	201931924 A	TW
									14/342283	9591519	US
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	1					E .			15/994774	10355831	US
									16/377713	20190238280 A1	US
								PCT	2012-541727	5898087	JP
	1			1				1. 3.0	2016-039931	8268553	JP
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3GPP					PCT/JP20		communication		2019-103694		JP
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12		5.1.4.1	0	Patent	6	60067A1	and power		15/492827	9894622	US
			77	Trust			allocation method		15/860381	10051583	US
						1	method		16/019336	10313988	US
								16/384505	20190246362 A1	US	
								PCT	2012800750 42.0	104509012	CN
									2019102265	110061811A	CN
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3GPP	T000		140000	Sun	PCT/CN2	WO20140	method, base		12883201.1	2888827A1	EP
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12	3	1	0	Trust	60		equipment		14/416174	9648601	ŲS
							The second secon		15/474908	9967872	US
		1		1					15/947632	10182432	US
									16/208265	20190104506 A1	US
3GPP	T001		Q.		PCT/JP20		140 apparatus, base	PCT	2013800527 62.X	104704877	CN
Release 12	TS36.21	9.1.2	V12.13.	Patent Trust	13/00594 4	64892A1			2018105921 24.1	108449165A	CN
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							method and transmission		632/MUMNP/ 2015		IN
							method		2014-643133	6241621	JP
									2017-204640	6481906	JP
									2019-014357	2019083561A	JP
							Ť.		14/430137	9826526	US
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									16/280721	20190182832 A1	US
								PCT	1120150243 83-5	11201502438 3A2	BR
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									2019105980 82.7		CN
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									14713510.7	2982067	EP
		1							19166975.3	3528410A1	EP
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		}							14713510.7	2982067	GB
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000					PCT/EP2		MCS table		5936/CHENP /2015		IN
GPP	TS36.21	7474	V12.13.	Sun	014/0564	WO20141	adaptation for		2016-505787	6380860	JP
elease 2	3	7.1.7.1	0	Patent	66	61820A1	256-QAM		2018-135809	2018196131A	JP
4				Trust					10-2015- 7027159	20150140283 A	KR
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									MX/a/2019/0 05728		MX
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									16/353694	20190215221 A1	US
									1-2015- 03652		VN
							Wireless	PCT	2013800785 31.6	105409308A	CN
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Release 12	2	5.3.3.1.4	V12.9.1	Patent Trust	52	13871A1	eption point, user equipment		2016270030 14		IN
					1		and wireless		2016-530293	6222534	JP
							communication		2017-179176	6422006	JP
			1		1		system		2018-187486	2019033511 A	JP
									14/908077	20160183222 A1	US
							resolution and a second	PCT	2013800785 33.5	105409287A	CN
							140.1		13891045.0	3031242	DE
							device to device	and the second s	13891045.0	3031242	EP
									19174915.9		EP
3GPP Release		21 5.4.3.1.1		Sun Patent	PCT/CN2 013/0809 17	WO20150 17983A1			2016270028 07		IN
12	2	I TOO AMAY 2000	100,10-770,000	Trust	17	31-40-040-000	communication and user		2016-532175	6284064	JP
							and user equipment		2018-006346	6489336	JP
							equipment		2019-021613	2019071689A	JP
									14/907797	9918299	US
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3GPP	T0000			Sun	PCT/CN2	WO20150	TDD uplink/downlink		2019103704 41.3		CN
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12	3	C 25 (5) (5)	0	Trust	21	0.00 (mechanism		13891338.9	3031160A1	EP
				RE1957.			mechanism		2016470036		IN
					1				2016-532189	6308506	JP

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- 1									14/909975	9876628	US
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	3	- 1005	ATOMAS ATOM	Trust	3		dual connectivity		18161898.4	3352494A1	EP
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								V 1	2019103704 25.4		CN
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lease	1	5.3.1.1	0	Patent Trust	00	39947A1	connectivity		P002016053 98		ID
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									1120160772 3U	11201607723 U	SG
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PP				Sun	PCT/EP2	WO20151	request		14001053.9	2922360	FI
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OLIGO	1	0.7.0.1	0	Trust	31	38002A1	D2D		14001053.9	2922360	GB
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	5	5.4.2.1	V12.1.0	Patent	06	11184A1	small cell		14741913.9	3025547	FR
24.	1.77%			Trust	SESSE.		deployment		14741913.9	3025547	GB
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									MX/a/2016/0 14625	363176	MX
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nnn -					PCT/EP2	141000451	Resource	PCT	2015258143	2015258143	AU
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BPP Blease	TS36.21	14.1.1.1	V12.13.	Sun Patent	PCT/CN2 014/0776	WO20151 72392A1	communication method and D2D		2016470331		IN
	3	L. T. LANCE	0	Trust	97	7 2 3 2 2 7 7 7	-enabled		2016-562573	6391056	JP
				A STREET			wireless device		2018-151399		JP
									15/280889	20170019943 A1	US
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NDD				0	PCT/CN2	12/000400	Transmission		14898361.2	3175657	EP
PP	TS36.21	14.2.1	V12.13.	Sun Patent	014/0836	WO20160 15350A1	timing control for D2D		19155092.0	3499986A1	EP
nease	3	14.2.1	0	Trust	00	1030UA1	communication		14898361.2	3175657	FR
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									P- 0020160918 7		ID
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					1				14899440.3	3178264A1	EP
CDD				0	PCT/CN2	131000400	Power control method and user		2016470442 68		IN
GPP Release	TS36.21	14.1.1,5	V12.13.	Sun Patent	014/0838 86	WO20160 19545A1	equipment in device		2018480279 48		IN
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			1	1			in serving ceii		15/380094	10004046	US
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3GPP Release 12					PCT/CN2	1110000100	Improved resource		2014800820 70.4	107211470A	CN
	TS36.33	5.10.4	V12.18.	Sun	014/0875	WO20160	allocation for		14902654.4	3198981A1	EP
		5.10.4	0	Patent Trust	67	45094A1	device to device (D2D)		P002017011 39		ID
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							and the second		14902505.8	3198933A1	EP
3GPP				Sun	PCT/CN2	WO20160	Device-to- device wireless		2016470438 38		IN
Release	TS36.33	5,10.4	V12.18.	Patent	014/0875	45091A1	communication		2017-512722	6474010	JP
12	7	7.5.9.55	0	Trust	63		method and user		2019-006128	2019097180A	JP
							equipment		15/377931	10257880	US
									16/281987	20190182886 A1	US
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3GPP				Sun	PCT/EP2	W020121	message		2018-165463	2018207530A	JP
Release	TS23.40	5.3.4B.3	V13.9.0	Patent	012/0015	36374A2	transmission		13/978301	9247471	US
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							procedures		15/855010	20180139671 A1	US
							Transmission	PCT	2012800360 87.7	103703812	CN
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BGPP	TS36.32	E 4.4	14000	Sun	12/00461	WO20130	transmission		18100731.4		HK
Release	1	5.1.1	V13.9.0	Patent	7	21551A1	device and		2013-527852		JP
13				Trust			transmission		2016-162744	6249310	JP
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							Method of	PCT	2012800673 08.7	104054286	CN
3GPP	TS36.21		2745.44	Sun	PCT/CN2	WO20131	scrambling reference		2017103377 29.1	107181581A	CN
Release	1 030.21	6.10.5	V13.11.	Patent	012/0706	07025A1	signals, device		2014-552462	6002243	JP
3	1		0	Trust	04		and user equipment using		14/368767	9712299	US
				1			the method		15/600419	10038534	US
							are meniod		16/022361	20180309558 A1	US
							Wireless	PCT	2014-503454	6069642	JP
GPP				Cour	PCT/JP20	MOSSIS	communication		2016-235013	6269792	JP
Release	TS36.21	10.1.2.2	V13.14.	Sun	13/00100	WO20131	terminal device		14/378294	9877306	US
3	3	10.1.2.2	0	Trust	6	32774A1	and control		15/841012	10075942	US
10				trust			channel forming method		16/101225	20180352543 A1	US
								PCT	2013800715 96.8	104956749A	CN
		An weather!			2019106666 38.1		CN				
GPP				Cum	PCT/CN2	WO20141			2015-551098	6115840	JP
Release	TS36.21	10.1.2.1	V13.14.	Sun	013/0710	17326A1	transmission method, and		2017-043603	6365954	JP
3	3	10,1,2,1	0	Trust	85	17320A1	reception		2018-116977	6550606	JP
				Trust			method		2019-104627	Wallet Day of the	JP
							mourou		14/443980	9565669	US
									15/385002	9814034	US
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					DOTIONO		Method of mapping CSI-	PCT	2013800747 66.8		CN
GPP	TS36.21		V13.11.	Sun	PCT/CN2 013/0736	WO20141	RS ports to		13881039.5		EP
elease	1 330,21	6.10.5	0	Patent	013/0/36	61145A1	antenna units,		2016-505670		JP
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			user equipment		2019-095982		JP				
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GPP	TS36.33	236 23 V/43 44 SUN 043/0900 WO20150 000000000	Base station apparatus,	PCT	2013800786 12.6	105432132A	CN				
Release 3	1	6.2.2	0	Patent	95	18005A1	terminal		13890902.3	3031264	DE
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							method, and		18192090.1	3429295A1	EP
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					DOT/ONE		Wireless		14879322.7	3100552A1	EP
GPP Release	T836.21	9.1.5	V13.14.	Sun Patent	PCT/CN2 014/0715	WO20151 09607A1	communication method,		2018270227 27		IN
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GPP	7000.04		140.44	Sun	PCT/CN2	WO20151	station, transmission		P002016084 35		ID
Release 3	TS36.21	10.1.2.1	V13.14.	Patent Trust	014/0806 28	96368A1	method, and reception		2016270408 12		IN
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lease	TS36.21	7.1,7.2	V13.14.	Sun	016/0691 52	29192A1	order adaptation for partial subframes		P002018007 84		ID
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PP	TOOP DE			Sun	PCT/CN2	WO20170	Multiple sidelink control		2015800839 85.1	108432309A	CN
elease TS36	1 535.32	5.14.1.1	V13.9.0	Patent Trust	015/0939 60	75798A1	transmissions during a sidelink		NC2018/000 3953		co
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									PID2018027 76		ID
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Release	TS36.21	6.3.4.4	V14.11.	Sun Patent	11/00338	WO20111 58496A1	method and		15197216.3	3032769	EP
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Release	3	7.2.3	0	Patent	0	14698A1	method, precoding		2014-092193	5739565	JP
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GPP									2019-075718		JP
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